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UCRL-TR-218682

BlueGene/L Integration Project

K. Cupps

February 6, 2006

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This work was performed under the auspices of the U.S. Department of Energy by University of California, Lawrence Livermore National Laboratory under Contract W-7405-Eng-48.

ID		L2	MTE	Task Name	Duration	% Complete	Start	Finish	Predecessors	Resource Names	04	2005	2006
1		Availability		BlueGene/L	1 day?	0%	Fri 10/1/04	Fri 10/1/04			tr	tr	tr
2	✓		PSE	Software	351 days?	100%	Mon 8/30/04	Mon 1/2/06					
3	✓			SLURM Design	54 days	100%	Mon 8/30/04	Thu 11/11/04		Jette			
4	✓			Associate BGL partitions with SLURM nodes	5 days	100%	Fri 10/1/04	Thu 10/7/04		Jette			
5	✓			Node monitor daemon DRAIN failed nodes	10 days	100%	Fri 10/8/04	Thu 10/21/04	4	Jette			
6	✓			Optimize SLURM node lookup for 3-D torus	5 days	100%	Fri 10/22/04	Thu 10/28/04	5	Jette			
7	✓			Move node selection logic from core to plugin	10 days	100%	Fri 10/29/04	Thu 11/11/04	6	Jette			
8	✓			Node selection recognizes 3-D architecture	15 days	100%	Mon 8/30/04	Fri 9/17/04		Phung,Auble			
9	✓			User ability to specify job geometry	5 days	100%	Mon 9/20/04	Fri 9/24/04	8	Phung			
10	✓			Network setup and take down for a specific job specific to BGL switch interconnect	20 days	100%	Mon 9/27/04	Fri 10/22/04	9	Phung			
11	✓			Enable SLURM connection to IBM APIs	10 days	100%	Fri 10/22/04	Thu 11/4/04	5	Jette			
12	✓			SLURM Test	220 days	100%	Fri 12/10/04	Fri 10/14/05					
13	✓	L3		SLURM Running on BGLb	0 days	100%	Fri 12/10/04	Fri 12/10/04	151,150	Jette			
14	✓			SLURM Testing on BGLb	30 days	100%	Wed 3/2/05	Tue 4/12/05	160	Jette			
15	✓	L3		SLURM Running on BGLc	0 days	100%	Tue 4/12/05	Tue 4/12/05	14	Jette			
16	✓			SLURM Testing on bglc	30 days	100%	Wed 4/13/05	Tue 5/24/05	15				
17	✓			SLURM Running on BGL 64 Racks	0 days	100%	Fri 9/2/05	Fri 9/2/05	176	Jette			
18	✓	L3		SLURM Testing on BGL 64 Racks	30 days	100%	Mon 9/5/05	Fri 10/14/05	17	Jette			
19	✓		PSE	Applications	45 days	100%	Wed 1/26/05	Tue 3/29/05					
20	✓			Marquis Application Scaling on 16 rack system	45 days	100%	Wed 1/26/05	Tue 3/29/05	153,48	Louis			
21	✓		PSE	Libraries	1 day?	100%	Tue 10/18/05	Tue 10/18/05	20				
22	✓			I/O libraries checked out	1 day?	100%	Tue 10/18/05	Tue 10/18/05	23,151	Futral			
23	✓		PSE	Compilers	214 days?	100%	Mon 12/13/04	Thu 10/6/05					
24	✓			BG/L b compiler checkout complete	1 day	100%	Mon 12/13/04	Mon 12/13/04	151	Futral			
25	✓			BG/L c compiler checkout complete	1 day?	100%	Thu 4/28/05	Thu 4/28/05	162	Futral			
26	✓			BG/L full system compiler checkout complete	1 day?	100%	Thu 10/6/05	Thu 10/6/05	177	Futral			
27	✓		PSE	MPI	265 days?	100%	Fri 10/1/04	Thu 10/6/05					
28	✓			Ensure MPI Security and Function	20 days	100%	Fri 10/1/04	Thu 10/28/04		Ahn			
29	✓			BG/L b MPI tests to identify issue	1 day	100%	Mon 12/13/04	Mon 12/13/04	151	Yates			
30	✓			BG/L c mpi tests complete (SWL Post-ship test)	1 day?	100%	Thu 4/28/05	Thu 4/28/05	162	Yates			
31	✓			BG/L full system MPI tests complete	1 day?	100%	Thu 10/6/05	Thu 10/6/05	177	Yates			
32	✓		PSE	Performance Testing	243 days	100%	Fri 12/10/04	Wed 11/16/05		Yates			
33	✓			BG/L b performance tests to identify issues	0 days	100%	Fri 12/10/04	Fri 12/10/04	151	Yates			
34	✓			BG/L c SWL performance tests	0 days	100%	Wed 4/27/05	Wed 4/27/05	162	Yates			
35	✓			BG/L full system SWL performance tests	0 days	100%	Wed 10/5/05	Wed 10/5/05	177	Yates			
36	✓			BG/L full system performance test report complete	30 days	100%	Thu 10/6/05	Wed 11/16/05	35	Yates			
37	✓		PSE	Etnus TotalView	122 days?	100%	Mon 12/13/04	Wed 6/1/05					
38	✓			Etnus TotalView Delivered	0 days	100%	Wed 12/15/04	Wed 12/15/04		Futral			
39	✓			Etnus check-out	1 day?	100%	Mon 12/13/04	Mon 12/13/04	151				
40	✓			Full system TV debugger complete	0 days	100%	Wed 6/1/05	Wed 6/1/05		Futral			
41	✓		PSE	Tools	213 days	100%	Fri 12/10/04	Wed 10/5/05					
42	✓			BG/L b tool checkout complete	0 days	100%	Fri 12/10/04	Fri 12/10/04	151	Futral			
43	✓			BG/L c tool checkout complete	0 days	100%	Wed 4/27/05	Wed 4/27/05	162	Futral			
44	✓			BG/L full system tool checkout complete	0 days	100%	Wed 10/5/05	Wed 10/5/05	177	Futral			

Project: Q Online v1a
Date: Wed 2/1/06

Task

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Summary

Rolled Up Task

Rolled Up Milestone

Rolled Up Progress

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External Tasks

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ID		L2	MTE	Task Name	Duration	% Complete	Start	Finish	Predecessors	Resource Names	04	2005	2006
											tr	tr	tr
45	✓		PSE	Lustre Software Milestones	327 days	100%	Fri 10/1/04	Mon 1/2/06					
46	✓			L4 Initial deployment of Lustre on BGL test system	30 days	100%	Fri 10/1/04	Thu 11/11/04		Morrone			
47	✓			(L4) Lustre testing on 16-rack system -- 12/15/2005	30 days	100%	Wed 12/15/04	Tue 1/25/05	151	Morrone			
48	✓	L3		Lustre operational on BG/Lb	0 days	100%	Tue 1/25/05	Tue 1/25/05	47	Morrone			
49	✓			(L4) Lustre tested on 32-rack system -- 2/15/2005	30 days	100%	Thu 4/28/05	Wed 6/8/05	162	Morrone			
50	✓	L3		Lustre operational on BG/Lc	0 days	100%	Wed 6/8/05	Wed 6/8/05	49				
51	✓			(L4) Lustre tested on full 64-rack system in testing -- 4/15/2005	30 days	100%	Mon 10/17/05	Fri 11/25/05	177	Morrone			
52	✓	L3		Lustre operational on BG/L	0 days	100%	Fri 11/25/05	Fri 11/25/05	51				
53	✓			(L4) Lustre tested on SCF BGL-- 1/1/2006	45 days	100%	Tue 11/1/05	Mon 1/2/06		Morrone			
54				Hardware	343 days?	99%	Fri 10/1/04	Tue 1/24/06					
55	✓			Lustre Hardware	62 days?	100%	Fri 10/1/04	Mon 12/27/04		Fitzgerald			
56	✓			7 Cyclades Terminal Servers Delivered	1 day	100%	Fri 10/1/04	Fri 10/1/04		Fitzgerald			
57	✓			7 48 port cisco switches delivered	1 day?	100%	Fri 10/1/04	Fri 10/1/04		Slavec			
58	✓			1 Cisco 3550 Delivered	1 day?	100%	Fri 10/1/04	Fri 10/1/04		Slavec			
59	✓			7 GBICs delivered	1 day?	100%	Fri 10/1/04	Fri 10/1/04		Slavec			
60	✓			Get another metadata server for 128 node system	22 days	100%	Fri 10/1/04	Mon 11/1/04		Fitzgerald			
61	✓			Move 128 node system to new metadata server	2 days	100%	Tue 11/2/04	Wed 11/3/04	60	Goldstone			
62	✓			Lustre Hardware Installation	56 days?	100%	Mon 10/11/04	Mon 12/27/04					
63	✓			1-4 racks built by DDN	5 days	100%	Mon 10/11/04	Fri 10/15/04		DDN			
64	✓			32 Nacona's Delivered	0 days	100%	Fri 10/15/04	Fri 10/15/04	63	Fitzgerald			
65	✓			1-4 racks wired EE techs	5 days	100%	Mon 10/18/04	Fri 10/22/04	64	EE Techs			
66	✓			Test Node-HBA-Cntrlr-Disk	15 days	100%	Mon 10/25/04	Fri 11/12/04	65	Stearman			
67	✓			5-8 racks built by DDN	5 days	100%	Mon 10/18/04	Fri 10/22/04	63	DDN			
68	✓			32 Nacona's Delivered	1 day?	100%	Mon 10/25/04	Mon 10/25/04	67	Fitzgerald			
69	✓			5-8 racks wired	5 days	100%	Tue 10/26/04	Mon 11/1/04	68	EE Techs			
70	✓			Test Node-HBA-Cntrlr-Disk	15 days	100%	Tue 11/2/04	Mon 11/22/04	69	Stearman			
71	✓	L3		BGLb Lustre Hardware Complete	0 days	100%	Mon 11/22/04	Mon 11/22/04	70				
72	✓			9-12 racks built by DDN	5 days	100%	Mon 10/25/04	Fri 10/29/04	67	DDN			
73	✓			32 Nacona's Delivered	1 day?	100%	Mon 11/1/04	Mon 11/1/04	72	Fitzgerald			
74	✓			9-12 acks wired EE techs	5 days	100%	Tue 11/2/04	Mon 11/8/04	73	EE Techs			
75	✓			Test Node-HBA-Cntrlr-Disk	15 days	100%	Tue 11/9/04	Mon 11/29/04	74	Stearman			
76	✓			13-16 racks built by DDN	5 days	100%	Mon 11/1/04	Fri 11/5/04	72	DDN			
77	✓			32 Nacona's Delivered	1 day?	100%	Mon 11/8/04	Mon 11/8/04	76	Fitzgerald			
78	✓			13-16 acks wired EE techs	5 days	100%	Tue 11/9/04	Mon 11/15/04	77	EE Techs			
79	✓			Test Node-HBA-Cntrlr-Disk	15 days	100%	Tue 11/16/04	Mon 12/6/04	78	Stearman			
80	✓	L3		BGLc Lustre Hardware Complete	0 days	100%	Mon 12/6/04	Mon 12/6/04	79				
81	✓			17-20 racks built by DDN	5 days	100%	Mon 11/8/04	Fri 11/12/04	76	DDN			
82	✓			32 Nacona's Delivered	1 day?	100%	Mon 11/15/04	Mon 11/15/04	81	Fitzgerald			
83	✓			17-20 acks wired EE techs	5 days	100%	Tue 11/16/04	Mon 11/22/04	82	EE Techs			
84	✓			Test Node-HBA-Cntrlr-Disk	15 days	100%	Tue 11/23/04	Mon 12/13/04	83	Stearman			
85	✓			21-24 racks built by DDN	5 days	100%	Mon 11/15/04	Fri 11/19/04	81	DDN			
86	✓			32 Nacona's Delivered	1 day?	100%	Mon 11/22/04	Mon 11/22/04	85	Fitzgerald			
87	✓			21-24 acks wired EE techs	5 days	100%	Tue 11/23/04	Mon 11/29/04	86	EE Techs			
88	✓			Test Node-HBA-Cntrlr-Disk	15 days	100%	Tue 11/30/04	Mon 12/20/04	87	Stearman			

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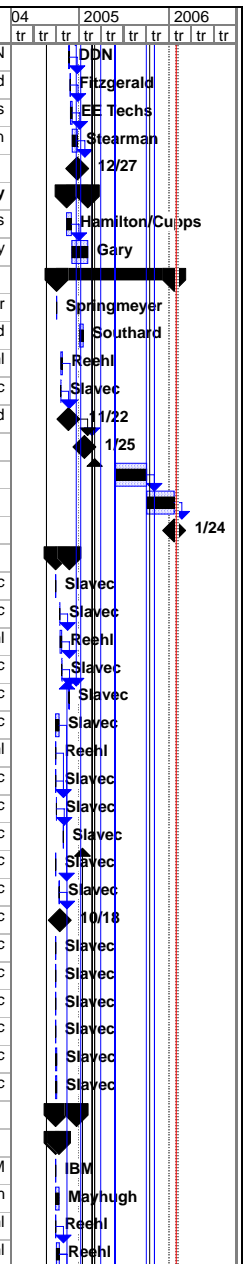
Project Summary

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ID		L2	MTE	Task Name	Duration	% Complete	Start	Finish	Predecessors	Resource Names	04	2005	2006
											tr	tr	tr
89				25-28 racks built by DDN	5 days	100%	Mon 11/22/04	Fri 11/26/04	85	DDN			
90				32 Nacona's Delivered	1 day?	100%	Mon 11/29/04	Mon 11/29/04	89	Fitzgerald			
91				25-28 acks wired EE techs	5 days	100%	Tue 11/30/04	Mon 12/6/04	90	EE Techs			
92				Test Node-HBA-Cntrlr-Disk	15 days	100%	Tue 12/7/04	Mon 12/27/04	91	Stearman			
93			L3	BGL Lustre Hardware Complete	0 days	100%	Mon 12/27/04	Mon 12/27/04	92				
94			PSE	Storage	62 days	100%	Mon 11/15/04	Tue 2/8/05		Gary			
95			PSE	Storage Cluster Install Complete	15 days	100%	Mon 11/15/04	Fri 12/3/04		Hamilton/Cupps			
96			PSE	Storage SW Transfer Tools Available	47 days	100%	Mon 12/6/04	Tue 2/8/05	95	Gary			
97			DVS	Visualization	341 days?	100%	Tue 10/5/04	Tue 1/24/06					
98			DVS	Vis User Requirements Collected	1 day?	100%	Tue 10/5/04	Tue 10/5/04		Springmeyer			
99			DVS	BGLb temporary vis resource delivered	10 days	100%	Fri 1/7/05	Thu 1/20/05		Southard			
100				ASL electrical complete	5 days	100%	Fri 10/22/04	Thu 10/28/04		Reehl			
101				ASL network complete	1 day	100%	Fri 10/22/04	Fri 10/22/04		Slavec			
102			DVS	BGLb temporary vis resource (QVC) up and running	20 days	100%	Mon 11/22/04	Fri 12/17/04	101,100	Southard			
103			DVS	BGLb vis resource available to users (tie to BG/L ready, lustre ready)	0 days	100%	Tue 1/25/05	Tue 1/25/05	47,153,102				
104			DVS	Permanent BG/L Vis Cluster delivered	90 days	100%	Wed 6/1/05	Tue 10/4/05					
105				BG/L Vis Install and bringup	80 days	100%	Wed 10/5/05	Tue 1/24/06	104				
106			L3 DVS	Permanent BG/L Unclassified Vis cluster available	0 days	100%	Tue 1/24/06	Tue 1/24/06	105				
107			CS	Network, Facilities, Sys Admin (Integration)	40 days	100%	Fri 10/1/04	Thu 11/25/04					
108			CS	Order Ethernet cabels for Lustre federated & BGL	1 day	100%	Fri 10/1/04	Fri 10/1/04		Slavec			
109			CS	Ethernet cables for Lustre and BGL delivered	1 day	100%	Mon 10/18/04	Mon 10/18/04		Slavec			
110			CS	Install Lustre Data Cable Trays	5 days	100%	Tue 10/19/04	Mon 10/25/04	109	Reehl			
111			CS	Install Lustre Federated Switches	1 day	100%	Tue 10/26/04	Tue 10/26/04	110,132	Slavec			
112			CS	Attach OSTs to Lustre Federated Switches	3 days	100%	Tue 11/23/04	Thu 11/25/04	111,70	Slavec			
113			CS	Network requirements gathered	10 days	100%	Fri 10/1/04	Thu 10/14/04		Slavec			
114			CS	Fiber pathway penetrations	1 day	100%	Fri 10/1/04	Fri 10/1/04		Reehl			
115			CS	Fiber for external network distribution delivered	1 day	100%	Fri 10/1/04	Fri 10/1/04		Slavec			
116			CS	Install external network fiber	1 day	100%	Mon 10/4/04	Mon 10/4/04	114,115	Slavec			
117			CS	Connect SN, FEN to external network	1 day	100%	Mon 11/1/04	Mon 11/1/04	141,142,116	Slavec			
118			CS	Connect SN, FEN to Lustre Federated switch	1 day	100%	Fri 10/1/04	Fri 10/1/04		Slavec			
119			CS	Network diagram complete	1 day	100%	Fri 10/15/04	Fri 10/15/04	113	Slavec			
120			CS	Network I P Addresses defined and delivered to IBM	1 day	100%	Mon 10/18/04	Mon 10/18/04	119	Slavec			
121			CS	Switches procured	1 day	100%	Fri 10/1/04	Fri 10/1/04		Slavec			
122			CS	Cables procured	1 day	100%	Fri 10/1/04	Fri 10/1/04		Slavec			
123			CS	Switches delivered	1 day	100%	Fri 10/1/04	Fri 10/1/04		Slavec			
124			CS	Cables delivered	1 day	100%	Fri 10/1/04	Fri 10/1/04		Slavec			
125			CS	Switches installed	3 days	100%	Fri 10/1/04	Tue 10/5/04		Slavec			
126			CS	Switches cabled	3 days	100%	Fri 10/1/04	Tue 10/5/04		Slavec			
127			CS	Facilities	61 days?	100%	Fri 10/1/04	Fri 12/24/04					
128			CS	Floor tile issue resoluton	10 days?	100%	Fri 10/1/04	Thu 10/14/04					
129			CS	Marroquin to complete thermal studies	1 day?	100%	Fri 10/1/04	Fri 10/1/04		IBM			
130			CS	Mayhugh to pursue stanition requirements	10 days	100%	Fri 10/1/04	Thu 10/14/04		Mayhugh			
131			CS	Electrical scheduled	1 day	100%	Fri 10/1/04	Fri 10/1/04		Reehl			
132			CS	Lustre Electrical Complete	10 days	100%	Mon 10/4/04	Fri 10/15/04	131	Reehl			



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ID		L2	MTE	Task Name	Duration	% Complete	Start	Finish	Predecessors	Resource Names	04	2005	2006
											tr	tr	tr
133	✓		CS	BGLb Electrical complete	15 days	100%	Mon 10/18/04	Fri 11/5/04	132	Reehl	10/18	11/5	
134	✓		CS	BGLb Floor reinforcements	10 days	100%	Mon 10/25/04	Fri 11/5/04		Mayhugh	10/25	11/5	
135	✓		CS	BGLb tile cutouts	2 days	100%	Mon 10/25/04	Tue 10/26/04		Reehl	10/25	10/26	
136	✓	L3		Facility ready for BGLb	0 days	100%	Fri 11/5/04	Fri 11/5/04	134		11/5	11/5	
137	✓			Remaining BGL electrical	20 days	100%	Mon 11/8/04	Fri 12/3/04	133	Reehl	11/8	12/3	
138	✓			Remaining BGL floor strengthening	20 days	100%	Mon 11/8/04	Fri 12/3/04	134,133	Mayhugh	11/8	12/3	
139	✓			Remaining BG/L floor tile cuts	4 days	100%	Tue 12/21/04	Fri 12/24/04	153	Reehl	12/21	12/24	
140	✓	L3		Facility Ready for BG/L	0 days	100%	Fri 12/24/04	Fri 12/24/04	139		12/24	12/24	
141	✓		CS	Service Node delivered	0 days	100%	Mon 11/1/04	Mon 11/1/04		IBM	11/1	11/1	
142	✓		CS	Front End Node delivered	0 days	100%	Mon 11/1/04	Mon 11/1/04		IBM	11/1	11/1	
143	✓		CS	Install BGL Federated Switch and cables	3 days	100%	Mon 10/18/04	Wed 10/20/04	132	Slavec	10/18	10/20	
144	✓			BG b 16 Rack Install, cable and bringup	31 days	100%	Mon 11/8/04	Tue 12/21/04		IBM	11/8	12/21	
145	✓		CS	BGLb 8 racks delivered	0 days	100%	Mon 11/8/04	Mon 11/8/04		IBM	11/8	11/8	
146	✓		CS	BGLb final 8 racks delivered	0 days	100%	Mon 11/15/04	Mon 11/15/04		IBM	11/15	11/15	
147	✓		CS	BGLb 8 racks cabled	10 days	100%	Mon 11/8/04	Fri 11/19/04	145,134	IBM	11/8	11/19	
148	✓		CS	BGLb 16 racks cabled	10 days	100%	Mon 11/15/04	Fri 11/26/04	146	IBM	11/15	11/26	
149	✓		CS	Run cable diagnostics	2 days	100%	Mon 11/29/04	Tue 11/30/04	147,148	IBM	11/29	11/30	
150	✓			Machine bringup and debug	8 days	100%	Wed 12/1/04	Fri 12/10/04	149	IBM	12/1	12/10	
151	✓			BGL b Software Checkout Readiness	0 days	100%	Fri 12/10/04	Fri 12/10/04	150	LLNL	12/10	12/10	
152	✓			BGL Acceptance Testing	5 days	100%	Mon 12/13/04	Fri 12/17/04	151	LLNL and IBM	12/13	12/17	
153	✓	L3		BGLb (16 racks) Acceptance from IBM	0 days	100%	Tue 12/21/04	Tue 12/21/04	152	LLNL	12/21	12/21	
154	✓			BGLc 16 to 32 Rack Install, cable and bringup	63 days	100%	Mon 1/31/05	Wed 4/27/05		IBM	1/31	4/27	
155	✓		CS	BGLc 8 racks delivered	0 days	100%	Mon 1/31/05	Mon 1/31/05		IBM	1/31	1/31	
156	✓		CS	BGLc final 8 racks delivered	0 days	100%	Mon 2/7/05	Mon 2/7/05		IBM	2/7	2/7	
157	✓		CS	BGLc 8 racks cabled	10 days	100%	Mon 1/31/05	Fri 2/11/05	155	IBM	1/31	2/11	
158	✓		CS	BGLc 16 racks cabled	10 days	100%	Mon 2/7/05	Fri 2/18/05	156	IBM	2/7	2/18	
159	✓			BGLc 32 racks cabled (combine with existing 16 racks)	5 days	100%	Mon 2/21/05	Fri 2/25/05	158	IBM	2/21	2/25	
160	✓		CS	Run cable diagnostics	2 days	100%	Mon 2/28/05	Tue 3/1/05	157,159	IBM	2/28	3/1	
161	✓			Machine bringup and debug	20 days	100%	Wed 3/2/05	Tue 3/29/05	160	IBM	3/2	3/29	
162	✓			BGL c Software Checkout Readiness	11 days	100%	Wed 4/13/05	Wed 4/27/05		LLNL	4/13	4/27	
163	✓	L3		BGLc (32 racks) Acceptance from IBM	0 days	100%	Wed 4/27/05	Wed 4/27/05	162	LLNL	4/27	4/27	
164	✓			BGL 32 to 64 Rack Install, cable and bringup	78 days	100%	Mon 6/20/05	Wed 10/5/05		IBM	6/20	10/5	
165	✓		CS	BGL 8 racks delivered	0 days	100%	Mon 6/20/05	Mon 6/20/05	226	IBM	6/20	6/20	
166	✓		CS	BGL nextl 8 racks delivered	0 days	100%	Thu 6/23/05	Thu 6/23/05		IBM	6/23	6/23	
167	✓			BGL next 8 racks delivered	0 days	100%	Fri 6/24/05	Fri 6/24/05		IBM	6/24	6/24	
168	✓			BGL next 8 racks delivered	0 days	100%	Tue 6/28/05	Tue 6/28/05		IBM	6/28	6/28	
169	✓		CS	BGLb 8 racks cabled	5 days	100%	Mon 6/20/05	Fri 6/24/05	165	IBM	6/20	6/24	
170	✓		CS	BGLb 16 racks cabled	5 days	100%	Thu 6/23/05	Wed 6/29/05	166	IBM	6/23	6/29	
171	✓			BGL 24 racks cabled	5 days	100%	Thu 6/30/05	Wed 7/6/05	170	IBM	6/30	7/6	
172	✓			BGL 32 racks cabled	5 days	100%	Thu 7/7/05	Wed 7/13/05	171	IBM	7/7	7/13	
173	✓		CS	Run cable diagnostics on 32 racks	12 days	100%	Thu 7/14/05	Fri 7/29/05	169,172	IBM	7/14	7/29	
174	✓			Combine new 32 racks with existing 32 racks	7 days	100%	Mon 8/1/05	Tue 8/9/05	173	IBM	8/1	8/9	
175	✓			Existing 32 Racks not available to users	0 days	100%	Fri 7/29/05	Fri 7/29/05	173		7/29	7/29	
176	✓			Machine bringup and debug	25 days	100%	Mon 8/1/05	Fri 9/2/05	175	IBM	8/1	9/2	

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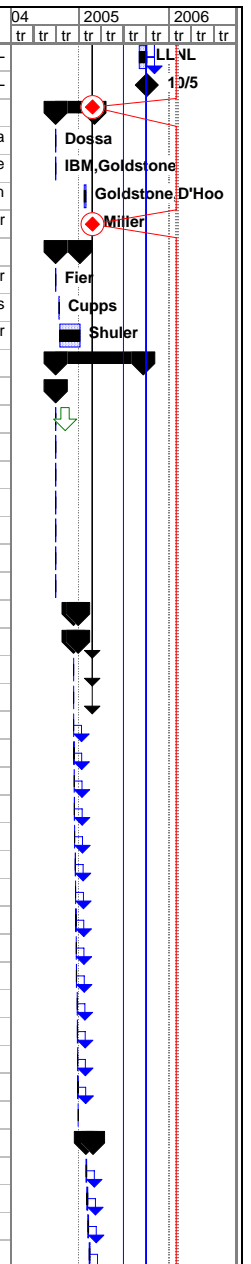
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ID		L2	MTE	Task Name	Duration	% Complete	Start	Finish	Predecessors	Resource Names	04	2005	2006
177	✓			BGL Software Checkout Readiness	23 days	100%	Mon 9/5/05	Wed 10/5/05	176	LLNL	tr	tr	tr
178	✓	L3		BGL Acceptance from IBM	0 days	100%	Wed 10/5/05	Wed 10/5/05	177	LLNL	tr	tr	tr
179				System Administration	112 days?	58%	Fri 10/1/04	Mon 3/7/05					
180	✓			System Admin milestone 42 reviewed	1 day?	100%	Fri 10/1/04	Fri 10/1/04		Dossa			
181	✓			System Administration tool list reviewed	1 day?	100%	Fri 10/1/04	Fri 10/1/04		IBM,Goldstone			
182	✓			System Admin. Education in Rochester	5 days	100%	Tue 1/25/05	Mon 1/31/05		one,D'Hooqe,Bertsch			
183	■			DB2 Training	5 days	0%	Tue 3/1/05	Mon 3/7/05		Miller			
184	✓			User Services	71 days	100%	Fri 10/1/04	Fri 1/7/05					
185	✓			Rules for running	1 day	100%	Fri 10/1/04	Fri 10/1/04		Fier			
186	✓			Process for account approval	1 day	100%	Thu 10/14/04	Thu 10/14/04		Cupps			
187	✓			General User Processes and Documentation	60 days	100%	Mon 10/18/04	Fri 1/7/05		Shuler			
188	✓			SWL	253.5 days?	100%	Fri 10/1/04	Wed 9/21/05					
189	✓			BGLb Pre-ship SWL	1 day	100%	Fri 10/1/04	Fri 10/1/04					
190	✓			IBM CPU Test 1K nodes for 1 hour	1 day	100%	Fri 10/1/04	Fri 10/1/04					
191	✓			IBM Mem Test 1K nodes for 1 hour	1 day	100%	Fri 10/1/04	Fri 10/1/04					
192	✓			IBM Torus/TreeTest 1K nodes for 1 hour	1 day	100%	Fri 10/1/04	Fri 10/1/04					
193	✓			MPI mini-tests 1K nodes for 1 hour	1 day	100%	Fri 10/1/04	Fri 10/1/04					
194	✓			Linpack 1K nodes, 2K CPUs for 1 hour	1 day	100%	Fri 10/1/04	Fri 10/1/04					
195	✓			sPPM 1K nodes, 1K CPUs for 1 hour	1 day	100%	Fri 10/1/04	Fri 10/1/04					
196	✓			UMT2000 1K nodes, 1K CPUs for 1 hour	1 day	100%	Fri 10/1/04	Fri 10/1/04					
197	✓			BGLb Acceptance SWL	15 days?	100%	Mon 12/13/04	Fri 12/31/04					
198	✓			BGLb Functional Test	15 days?	100%	Mon 12/13/04	Fri 12/31/04					
199	✓			Entry Criteria - Either Lustre or NFS can be mounted from all IO nodes	1 day?	100%	Mon 12/13/04	Mon 12/13/04	151				
200	✓			Entry Criteria - SLURM is Functioning	1 day?	100%	Mon 12/13/04	Mon 12/13/04	151				
201	✓			Entry Criteria - System and network installed and operating	1 day?	100%	Mon 12/13/04	Mon 12/13/04	151				
202	✓			Linpack 16x1K nodes for 1 hour	1 day?	100%	Tue 12/14/04	Tue 12/14/04	201				
203	✓			Linpack 2x8K nodes for 3 hours	1 day?	100%	Wed 12/15/04	Wed 12/15/04	202				
204	✓			Linpack 1x16K nodes for 3 hours	1 day?	100%	Thu 12/16/04	Thu 12/16/04	203				
205	✓			sPPM 16x1K nodes for 1 hour	1 day?	100%	Fri 12/17/04	Fri 12/17/04	204				
206	✓			sPPM 2x8K nodes for 2 hours	1 day?	100%	Mon 12/20/04	Mon 12/20/04	205				
207	✓			sPPM 1x16K nodes for 4 hours	1 day?	100%	Tue 12/21/04	Tue 12/21/04	206				
208	✓			UMT2000 16x1K nodes for 1 hour	1 day?	100%	Wed 12/22/04	Wed 12/22/04	207				
209	✓			UMT2000 2x8K nodes for 2 hours	1 day?	100%	Thu 12/23/04	Thu 12/23/04	208				
210	✓			UMT2000 1x16K nodes for 4 hours	1 day?	100%	Fri 12/24/04	Fri 12/24/04	209				
211	✓			System Management test 32x512 - 1x16K nodes for 4 hours	1 day?	100%	Mon 12/27/04	Mon 12/27/04	210				
212	✓			Partitioning 32x512 - 1x16K nodes for 4 hours	1 day?	100%	Tue 12/28/04	Tue 12/28/04	211				
213	✓			Logging on all tests	1 day?	100%	Wed 12/29/04	Wed 12/29/04	212				
214	✓			IBM HW Diagnostics 32x512 - 1x16K nodes for 8 hours	1 day?	100%	Thu 12/30/04	Thu 12/30/04	213				
215	✓			IOR 32x512 - 1x16K nodes for 4 hours	1 day?	100%	Fri 12/31/04	Fri 12/31/04	214				
216	✓			BGLc Pre-ship SWL	21 days	100%	Tue 2/1/05	Tue 3/1/05					
217	✓			IBM CPU Test 1K nodes for 1 hour	3 days	100%	Tue 2/1/05	Thu 2/3/05					
218	✓			IBM Mem Test 1K nodes for 1 hour	3 days	100%	Fri 2/4/05	Tue 2/8/05	217				
219	✓			IBM Torus/TreeTest 1K nodes for 1 hour	3 days	100%	Wed 2/9/05	Fri 2/11/05	218				
220	✓			MPI mini-tests 1K nodes for 1 hour	3 days	100%	Mon 2/14/05	Wed 2/16/05	219				



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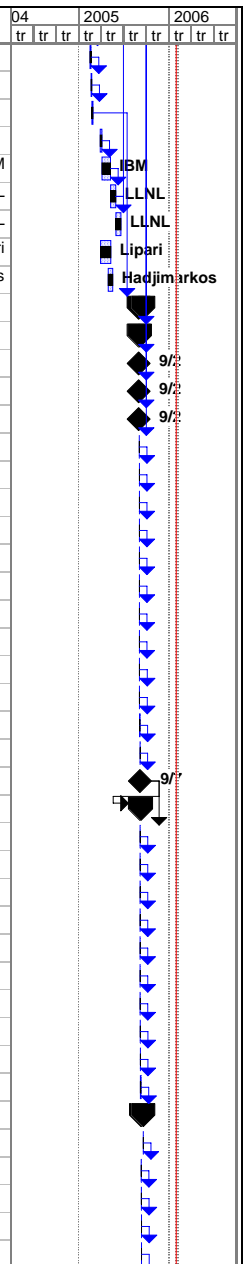
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ID		L2	MTE	Task Name	Duration	% Complete	Start	Finish	Predecessors	Resource Names	04	2005	2006
											tr	tr	tr
221				Linpack 1K nodes, 2K CPUs for 1 hour	3 days	100%	Thu 2/17/05	Mon 2/21/05	220				
222				sPPM 1K nodes, 1K CPUs for 1 hour	3 days	100%	Tue 2/22/05	Thu 2/24/05	221				
223				UMT2000 1K nodes, 1K CPUs for 1 hour	3 days	100%	Fri 2/25/05	Tue 3/1/05	222				
224				Cable up 32K at Rochester	5 days	100%	Thu 3/31/05	Wed 4/6/05					
225				Rochester 32K Machine bringup and debug	25 days	100%	Thu 4/7/05	Wed 5/11/05	224	IBM			
226				Rochester BGL Software Checkout Readiness	15 days	100%	Thu 5/12/05	Wed 6/1/05	225	LLNL			
227				Rochester Runs SWL on 32 Racks in Rochester	15 days	100%	Thu 6/2/05	Wed 6/22/05	226	LLNL			
228				LCRM Ready for Test	30 days	100%	Fri 4/1/05	Thu 5/12/05		Lipari			
229				SWL Codes Ready and Harness Tested	15 days	100%	Mon 5/2/05	Fri 5/20/05		Hadjimarkos			
230				BGLcAcceptance SWL/ BGL 64 Rack Pre-ship, BGL 64 Rack Acceptance	12.5 days?	100%	Fri 9/2/05	Wed 9/21/05	223				
231				BGL Functional Test	3 days	100%	Fri 9/2/05	Wed 9/7/05	176				
232				Entry Criteria - Lustre can be mounted from all IO nodes	0 days	100%	Fri 9/2/05	Fri 9/2/05	176				
233				Entry Criteria - SLURM is Functioning	0 days	100%	Fri 9/2/05	Fri 9/2/05	176				
234				Entry Criteria - System and network installed and operating	0 days	100%	Fri 9/2/05	Fri 9/2/05	176				
235				MPI Validation Test Suite	0.1 days	100%	Mon 9/5/05	Mon 9/5/05	176				
236				MPI2 Functional Test	0.1 days	100%	Mon 9/5/05	Mon 9/5/05	235				
237				MPI I/O	0.1 days	100%	Mon 9/5/05	Mon 9/5/05	236				
238				Chkpt/Restart	0.1 days	100%	Mon 9/5/05	Mon 9/5/05	237				
239				Global CRC	0.1 days	100%	Mon 9/5/05	Mon 9/5/05	238				
240				Lustre serial and parallel tests	0.2 days	100%	Mon 9/5/05	Mon 9/5/05	239				
241				Sys. Admin	0.1 days	100%	Mon 9/5/05	Mon 9/5/05	240				
242				CMCS	0.1 days	100%	Mon 9/5/05	Mon 9/5/05	241				
243				SLURM	1 day	100%	Mon 9/5/05	Tue 9/6/05	242				
244				PAPI	1 day	100%	Mon 9/5/05	Tue 9/6/05	243				
245				System Call Tests	1 day	100%	Tue 9/6/05	Wed 9/7/05	244				
246				Netlib Test Suite	0.1 days	100%	Wed 9/7/05	Wed 9/7/05	245				
247				BGL Functional Test Complete	0 days	100%	Wed 9/7/05	Wed 9/7/05	246				
248				BGL PERFORMANCE SWL Tests	2.35 days?	100%	Thu 9/8/05	Mon 9/12/05	247				
249				Presta MPI Performance	0.1 days	100%	Thu 9/8/05	Thu 9/8/05	247				
250				MPI mini tests	0.1 days	100%	Thu 9/8/05	Thu 9/8/05	249				
251				Lustre	0.25 days	100%	Thu 9/8/05	Thu 9/8/05	250				
252				NEWS05	0.1 days	100%	Thu 9/8/05	Thu 9/8/05	251				
253				STREAM	0.1 days	100%	Thu 9/8/05	Thu 9/8/05	252				
254				STRIDE	0.1 days	100%	Thu 9/8/05	Thu 9/8/05	253				
255				TTCP, NetPerf	0.1 days	100%	Thu 9/8/05	Thu 9/8/05	254				
256				MATMULT	0.25 days	100%	Thu 9/8/05	Fri 9/9/05	255				
257				Netlib test suite	0.25 days	100%	Fri 9/9/05	Fri 9/9/05	256				
258				BGL performance SWL Complete	1 day?	100%	Fri 9/9/05	Mon 9/12/05	257				
259				BGL STABILITY SWL	7.15 days?	100%	Mon 9/12/05	Wed 9/21/05	258				
260				Linpack	0.5 days	100%	Wed 9/21/05	Wed 9/21/05					
261				sPPM	0.5 days	100%	Mon 9/12/05	Tue 9/13/05	260				
262				UMT2000	0.5 days	100%	Tue 9/13/05	Tue 9/13/05	261				
263				Miranda	0.5 days	100%	Tue 9/13/05	Wed 9/14/05	262				
264				Raptor	0.5 days	100%	Wed 9/14/05	Wed 9/14/05	263				



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265	✓			Mdcask/Purgatory	0.5 days	100%	Wed 9/14/05	Thu 9/15/05	264		tr	tr	tr
266	✓			LAMMPS	0.5 days	100%	Thu 9/15/05	Thu 9/15/05	265		tr	tr	tr
267	✓			SPASM	1 day?	100%	Thu 9/15/05	Fri 9/16/05	266		tr	tr	tr
268	✓			Hypr/Sundials Libraries via Miranda	0.5 days	100%	Fri 9/16/05	Mon 9/19/05	267		tr	tr	tr
269	✓			ddcMD	2 days	100%	Mon 9/12/05	Wed 9/14/05			tr	tr	tr
270	✓			BGL LA	0 days	100%	Mon 10/3/05	Mon 10/3/05			tr	tr	tr
271	✓			BGL Coverage Schedule Identified	5 days	100%	Mon 10/3/05	Fri 10/7/05	270	Cupps	tr	tr	tr
272	📅			BGL Security Plan	35 days	95%	Fri 10/14/05	Thu 12/1/05		Braby	tr	tr	tr
273	✓			Root FN accounts identified and removed from BGL	5 days	100%	Fri 10/14/05	Thu 10/20/05		Bertsch	tr	tr	tr
274	✓			Root FN accounts identified and removed from uBGL	1 day?	100%	Fri 10/21/05	Fri 10/21/05	273	Stearman	tr	tr	tr
275	✓			Move from Root FN NFS to regular NFS on BGL and uBGL	1 day	100%	Tue 10/25/05	Tue 10/25/05		Bertsch	tr	tr	tr
276	✓			Export Controlled Codes OK on BGL	0 days	100%	Tue 10/25/05	Tue 10/25/05	275	Bertsch	tr	tr	tr
277	✓			Lustre Performance Optimization Work	75 days	100%	Mon 10/3/05	Fri 1/13/06		Heidelberg	tr	tr	tr
278	✓			Lustre Filesystem User Comments	1 day	100%	Fri 1/20/06	Fri 1/20/06		Cupps	tr	tr	tr
279	✓			SLURM capable of 128 node partitions	10 days	100%	Fri 10/14/05	Thu 10/27/05		Jette	tr	tr	tr
280	✓			Discuss security ramifications of running less than full midplanes	1 day?	100%	Fri 10/21/05	Fri 10/21/05		Bertsch	tr	tr	tr
281	✓			2.6 ION Driver work as prep. For Release 2	15 days	100%	Thu 10/20/05	Wed 11/9/05		Weiny	tr	tr	tr
282	✓			BGL Dist Work	15 days	100%	Mon 10/10/05	Fri 10/28/05		Bertsch	tr	tr	tr
283				BGL Admin Documentation	5 days	90%	Mon 12/26/05	Fri 12/30/05	284	Bertsch	tr	tr	tr
284	📅			Monitoring policy and instantiation	2 days	50%	Thu 12/22/05	Mon 12/26/05		Bertsch	tr	tr	tr
285	✓			BGL Monitoring in HM	4 days	100%	Tue 12/20/05	Fri 12/23/05		Cunningham	tr	tr	tr
286	📅			Ops training for hardware repairs (service action/end service action)	3 days	25%	Wed 1/4/06	Wed 2/15/06	298	Wente	tr	tr	tr
287				Service Node DB2 Backup Strategy, pruning strategy and instantiation	10 days	90%	Mon 10/31/05	Fri 11/11/05	282	Miller	tr	tr	tr
288	✓			Network Ips needed	0 days	100%	Wed 11/30/05	Wed 11/30/05			tr	tr	tr
289	✓			Install new Ips and rebalance switches on open side	2 days	100%	Wed 1/4/06	Thu 1/5/06		Bertsch,Slavec	tr	tr	tr
290	📅			Hello lustre regression test suite	10 days	90%	Thu 12/15/05	Wed 12/28/05			tr	tr	tr
291	📅			BGL Usage Model	15 days	90%	Mon 10/24/05	Fri 11/11/05		Louis	tr	tr	tr
292	✓			Supercomputing 2005	5 days	100%	Mon 11/14/05	Fri 11/18/05			tr	tr	tr
293	✓			BGL Release 2 SW Available	1 day?	100%	Fri 11/18/05	Fri 11/18/05		IBM	tr	tr	tr
294	✓			Release 2 Testing (includes functional and performance tests)	15 days	100%	Fri 11/18/05	Thu 12/8/05		IBM,LLNL	tr	tr	tr
295	✓			SWL Round 2 (Stability)	5 days	100%	Fri 12/9/05	Thu 12/15/05	294	Hadjimarkos	tr	tr	tr
296	✓			Lustre reformat for ext3 optimizations	1 day?	100%	Mon 12/19/05	Mon 12/19/05			tr	tr	tr
297	✓			Code optimization - rack accomodation determination runs	1 day	100%	Fri 12/16/05	Fri 12/16/05	295	Spelce	tr	tr	tr
298	📅			Install new rack (if received)	4 days	0%	Tue 2/7/06	Fri 2/10/06		Wente	tr	tr	tr
299	✓			BGL driver upgrade, SUSE rev	1 day	100%	Tue 1/31/06	Tue 1/31/06		Bertsch	tr	tr	tr
300	✓			Daughter cards on switches and test	0.5 days	100%	Wed 2/1/06	Wed 2/1/06	299	Slavec	tr	tr	tr
301	✓			Lustre reformat for filesystem division	1 day	100%	Wed 2/1/06	Wed 2/1/06		Useton	tr	tr	tr
302	✓			Lustre filesystem testing/debug	2 days	100%	Thu 2/2/06	Fri 2/3/06	301	Useton	tr	tr	tr
303				User testing	10 days	0%	Mon 2/6/06	Fri 2/17/06	302		tr	tr	tr
304	✓			LCRM Update	0.1 days	100%	Mon 2/7/05	Mon 2/7/05		Lipari	tr	tr	tr
305				Create BGL Swing Plan for 20% unclassified use	15 days	0%	Thu 2/23/06	Wed 3/15/06	306	Cupps	tr	tr	tr
306	📅			BGL Move to Classified	3 days	0%	Mon 2/20/06	Wed 2/22/06	303	Bertsch	tr	tr	tr
307				Classified BGL Friendly Users	10 days	0%	Thu 2/23/06	Wed 3/8/06	306		tr	tr	tr
308				BGL Classified LA	0 days	0%	Wed 3/8/06	Wed 3/8/06	307		tr	tr	tr

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